PATENT COOPERATION TREATY

From the

INTERNATIONAL PRELIMINARY EXAMINING

To: LEE, Young-Pil The Cheonghwa Bldg. 1571-18 Seocho-dong, Seocho-gu WRITTEN OPINION OF THE Seoul 137-874 Republic of Korea INTERNATIONAL PRELIMINARY **EXAMINING AUTHORITY** (PCT Rule 66) Date of mailing (day/month/year) 26 MAY 2005 (26.05.2005) Applicant's or agent's file reference REPLY DUE 2 within months the above date of mailing HB-20863-PCT International application No. Priority date(day/month/year) International filing date (day/month/year) PCT/KR2004/000962 26 APRIL 2004 (26.04.2004) 09 MAY 2003 (09.05.2003) International Patent Classification (IPC) or both national classification and IPC IPC7 H05H 1/18 Applicant HANYANG HAK WON CO., LTD. et al The written opinion established by the International Searching Authority : is not considered to be a written opinion of the International Preliminary Examining Authority. 2. This (first, etc.) opinion contains indications relating to the following items: Box No. 1 Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 3. The applicant is hereby invited to reply to this opinion. When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(e). By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9. For the examiner's obligation to consider amendments and/or arguments, seeRule 66.4bis. Also For an informal communication with the examiner, see Rule 66.6.

Name and mailing address of the IPEA/KR

Facsimile No. 82-42-472-7140

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(Chapter II of the PCT) must established according to Rule 69.2 is: 30 AUGUST 2005 (30.08.2005)

If no reply is filed, the international preliminary examination report will be established on the i-asis of this opinion.

For an additional opportunity to submit amendments, see Rule 66.4.

The final date by which the international preliminary report on patentability

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Authorized officer

Telephone No. 82-42-481-5670

WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMING AUTHORITY

International application No.

PCT/KR2004/000962

В	OX INO	. 1 Bas	is of the opinion				
1.	1. With regard to the language, this opinion has been established on the basis of the international application in the language in which was filed, unless otherwise indicated under this item.						
	Ш	This opinion is based on a translation from the original language into the following language which is the language of a translation furnished for the purposes of:					
		international search (under Rules 12.3 and 23.1(b))					
	publication of the international application (under Rule 12.4)						
	international preliminary examination (under Rules 55.2 and/or 55.3)						
2.	whi	ch have original the int the de pages	been furnished to the ly filed."): ernational applicationscription:	e reeiving Office in respo	nse to an invitation under Article	, as originally filed/furnished	
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		pages pages			received by this Authority on	with any staument, under Article 19	
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					received by this Authority on		
3.	the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheet/fig the sequence listing (specify): any table(s) related to the sequence listing (specify):						
4.	This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Suplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheet/fig the sequence listing (specify): any table(s) related to the sequence listing (specify):						

WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMING AUTHORITY

International application No.
PCT/KR2004/000962

Box No. V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Novelty (N) Claims Claims Inventive step (IS) Claims Claims Industrial applicability (IA) Claims Claims 2. Citations and explanations: The following documents are referred: D1: KR 2001-60200 A D2: US 6140773 A 1. D1 discloses a plasma generating device in which the working electrode is located near the gas inlet, and the ground electrodes near the emission hole. D2 discloses a plasma source array in which several sources are mounted in parallel. Accordingly, the subject-matter of Claims 1-4 is considered to be novel (Article 33(2) PCT). 2. The closest state of the art appears to be represented by D1. Regarding the independent Claim 1, the technical concept advanced over D1 is the multiple dielectric walls. Said walls separate the cavity into several channels, and make it possible for the gas to flow through said channels. Neither D1 nor D2 suggests those such channels for gas flow. Thus, Claim 1 involves an inventive step and meets the requirement of Article 33(3) PCT. 3. The industrial applicability of said subject-matters is self-evident.